IN THE CLAIMS

- 1. (Currently Amended) A polyfluorene end-capped with at least one charge-transporting moiety, wherein said charge transporting moitey is a chemical moiety adapted to facilitate the transport of electrons, holes or ions.
- 2. (Currently Amended) A <u>The polyfluorene according to claim 1</u>, wherein the charge-transporting moitey is selected from the group <u>comprising consisting of electron-transporting moieties</u>, hole-transporting moieties and ion-transporting moieties.
- 3. (Currently Amended) A <u>The</u> polyfluorene according claim 1, wherein the charge-transporting moiety is selected from the group <u>comprising consisting of</u>:

$$R_3$$

wherein R₁ and R₂ are independently at each occurrence selected from the group eomprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted arlyoxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylaminoaryl, and

wherein R_3 is independently at each occurrence selected from the group eomprising consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

4. (Currently Amended) A <u>The</u> polyfluorene according to claim 3, wherein R₁ and R₂ are independently at each occurrence selected from the group comprising consisting of 4-methylphenyl, 2-methylphenyl, 1-naphthyl, 2-naphtyl, 4-methoxyphenyl, 2-

methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

5. (Currently Amended) A polyfluorene end-capped with at least one moiety selected from the group eomprising consisting of:

wherein R_1 and R_2 are independently at each occurrence selected from the group eomprising consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylamnoaryl, and

wherein R_3 is independently at each occurrence selected from the group comprising consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

6. (Currently Amended) A <u>The polyfluorene according to claim 5</u>, wherein R₁ and R₂ are independently at each occurrence selected from the group eomprising consisting of 4-methylphenyl, 2-methylphenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

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7. (Currently Amended) A polyfluorene having the formula

wherein R_4 and R_5 are independently at each occurrence selected from the group emprising consisting of:

$$- \left(\begin{array}{c} R_3 \\ \end{array} \right)$$
 and H

R₁ and R₂ being independently selected from the group eomprising consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl, and substituted diarylaminoaryl.

 R_3 being selected from the group comprising consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, and substituted alkylaryl,

and wherein R_6 and R_7 are independently at each occurrence selected from the group comprising consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, -(CH₂)_q-(O-CH₂-CH₂)_r-O-CH₃,

q being selected from the range 1 - 10, r being selected from the range 0 - 20,

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and wherein L and M are independently at each occurrence selected from the group eomprising consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer that can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene,

and wherein m+n+o 10, each of m, n, o being independently selected from the range 1 – 1,000,

and wherein p is selected from the range 0-15,

and wherein s is selected from the range 0-15, with the proviso that, if R_4 is H, R_5 is not H, and if R_5 is H, R_4 is not H.

- 9. (Currently Amended) A The polyfluorene according to claim 7 cross-linked to a polyfluorene according to claim 7 via at least one linkage selected from the group comprising consisting of a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and

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an α , ω -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1-20 C-atoms.

- 10. (Currently Amended) A <u>The</u> polyfluorene according to claim 7 which has at least one color-tuning moiety incorporated into the main chain.
- 11. (Currently Amended) A <u>The polyfluorene according to claim 10</u>, wherein the color-tuning moiety is selected from the group <u>comprising consisting of thiophene</u>, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer than can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene.
- 12. (Currently Amended) A <u>The</u> polyfluorene according to claim 7, which wherein the polyfluorene is liquid-crystalline.
- 13. (Currently Amended) A <u>The polyfluorene according to claim 12</u>, which wherein the polyfluorene is liquid-crystalline at or above 70° C.
- 14. (Currently Amended) A <u>The</u> polyfluorene according to claim 7, <u>which</u> <u>wherein</u> the polyfluorene is amorphous.
- 15. (Currently Amended) A polyfluorene selected from the group eomprising consisting of:

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wherein n is as previously defined.

- 16. (Currently Amended) A film incorporating comprising a polyfluorene according to claim 15.
 - 17. (Currently Amended) A The film according to claim 16, which wherein the film

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- 18. (Cancelled).
- 19. (Currently Amended) A film according to claim 18 16 in which said other substance is further comprising at least one other substance selected from the group comprising consisting of fluoroescent dyes, hole-transporting moieties, electron-transporting moieties, ion-transporting moieties, phosphorescent dyes, nanoparticles, low molecular weight liquid-crystalline moieties, other liquid-crystalline and/or fluorescent and/or phosphorescent and/or charge-transporting polymers.
- 20. (Currently Amended) A <u>The</u> film according to claim 16, <u>wherein the film is</u> deposited on an alignment layer.
- 21. (Currently Amended) A <u>The</u> film according to claim 16, wherein the film has having a thickness ranging from 10 nm to 2 μ m.
- 22. (Currently Amended) A <u>The</u> device selected from the group comprising consisting of FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to claim 16.
- 23. (Currently Amended) A <u>The</u> device according to claim 22, incorporating <u>further</u> <u>comprising</u> another polymer.

- 24. (Currently Amended) A <u>The</u> device according to claim 23, wherein said polymer is a luminescent polymer.
- 25. (Currently Amended) A device selected from the group <u>comprising consisting of</u> FETs, photovoltaic elements, LEDs and sensors, <u>incorporating further comprising</u> a film according to claim 16.
- 26. (Currently Amended) Use of a polyfluorene according to claim 1 in a film A film comprising a polyfluorene according to claim 1.
- 27. (Currently Amended) Use according to claim 26 The film according to claim 26, wherein the film is an emission layer.
- 28. (Currently Amended) Use of a polyfluorene according to claim 1 in a device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors A device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, comprising a polyfluorene according to claim 1.
 - 29. (Cancelled).

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30. (Currently Amended) Use of a device according to claim 22 in combination with a liquid-crystal display (LCD) The device according to claim 25, further comprising a liquid-crystal display.

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